AMENDMENTS TO THE CLAIMS

What is claimed is:

- 1. (Currently amended) A method for stiffening or supporting <u>first and second</u> <u>devices in a foldable arrays of devices</u>, comprising the steps of:
- 5 providing an arrangement of a plurality of devices having first sides and having second sides opposite said first sides;
 - connecting a hinge along a first shared edge between the first device and the second device;
 - hingedly connecting a first hinging means for bracing member to a first side of a-the first device;
 - hingedly connecting a second bracing member to the first bracing member along a second shared edge; and
- hingedly connecting athe second hinging means for bracing member to a first side of a the second device such that the second shared edge is parallel with the first shared edge.
 - 2. (Currently amended) The method of claim 1, wherein said-device comprises a device at least one of the devices is selected from the group consisting of an electrochemical device, an electronic device, electro-mechanical device, a bio-electric device, a bio-chemical device, a bio-mechanical device, and ana mechanical-chemical device.
- 3. (Original) The method of claim 2, wherein said electrochemical device comprises a thin-film electrochemical device.
 - 4. (Original) The method of claim 1, wherein said first device and said second device are adapted to fold to at least an open and a collapsed position.
- 5. (Currently amended) The method of claim 24, wherein said collapsed position comprises a position selected from athe group consisting of an inwardly folded position and an outwardly folded position.
 - 6. (Currently amended) The method of claim 1, further comprising the step of <u>hingedly</u> connecting an edge stiffener to <u>at least</u> a portion of an edge of one or more of said devices.

- 7. (Original) The method of claim 6, wherein said edge stiffener is adapted to provide deployment force.
- 8. (Original) The method of claim 1, further comprising the step of connecting an edge stiffener between a pair of said devices.
- 5 9. (Currently amended) The method of claim 6, wherein said edge stiffener is adapted to situatedeploy a pair or more of said devices in an open position.
 - 10. (Canceled)

- 11. (Currently amended) The method of claim 101, wherein said hinge comprises a hinge selected from the group consisting of a conventional hinge, a conventional hinge with integrated torsion spring, a polyimide fold, and a carpenter hinge.
- 12. (Currently amended) The method of claim 101, wherein said hinge is adapted to situatedeploy a pair or more of said devices in an open position.
- 13. (Currently amended) The method of claim 101, wherein said hinge is adapted to provide deployment force to said array.
- 15 14. (Original) The method of claim 1, wherein one or more of said devices is flexible.
 - 15. (Original) The method of claim 1, wherein one or more of said devices is rigid.
- 16. (Currently amended) The method of claim 1, wherein said plurality one or more of the devices comprises one or more devices selected from athe group consisting of an inactive substrate, a solar energy cell, a direct conversion light antenna, and a radio-frequency identification tag.
 - 17. (Original) The method of claim 16, wherein said solar energy cell comprises a thin-film photovoltaic cell.
- 25 18. (Original) The method of claim 17, wherein said thin-film photovoltaic cell comprises a copper-indium-gallium-selenide cell.
 - 19. (Currently amended) The method of claim 1, wherein said arrangement of a plurality foldable array of devices comprises a plurality of devices arranged on a single substrate.
- 30 20. (Original) The method of claim 19, wherein said substrate is flexible.

- 21. (Currently amended) The method of claim 1, wherein said arrangement foldable array comprises a grid-likegridded array of devices.
- 22. (Currently amended) The method of claim 1, further comprising the step of connecting a third hinging means for bracing member to a at least one of the first and second devices and to a hinging means for one of the first and second bracing members, wherein a portion of said third hinging means for bracing member is adapted to fold.
- 23. (Currently amended) The method of claim 1, further comprising the step of providing an electrostatic discharge layer on at least a substantial portion of said array-of devices and means-for bracing members.
- 24. (Currently amended) An apparatus Apparatus for stiffening first and second devices in a foldable arrays of devices comprising:
 - an arrangement of a plurality of devices with at least the first device and the second device hingedly connected along a first shared edge;
 - a first bracebracing member hingedly connected to athe first device; and
 - a second bracebracing member hingedly connected to athe first bracing member along a second shared edge and hingedly connected to the second device-and to said first brace member, wherein the second shared edge is parallel with the first shared edge.
- 25. (Currently amended) The apparatus of claim 24, wherein <u>at least one of said</u>
 devices comprises a device selected from the group consisting of an electrochemical device, an electronic device, <u>an electro-mechanical device</u>, a bio-electric device, a bio-chemical device, a bio-mechanical device, and <u>ana</u> mechanical-chemical device.
 - 26. (Original) The apparatus of claim 25, wherein said electrochemical device comprises a thin-film electrochemical device.
- 25 27. (Original) The apparatus of claim 24, wherein said first device and said second device are adapted to fold to at least an open and a collapsed position.
 - 28. (Currently amended) The apparatus of claim 27, wherein said collapsed position comprises a position selected from athe group consisting of an inwardly folded position and an outwardly folded position.

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- 29. (Original) The apparatus of claim 24, further comprising an edge stiffener at an edge of one or more of said devices.
- 30. (Currently amended) The apparatus of claim 29, wherein said edge stiffener is adapted to situatedeploy a pair or more of said devices in an open position.
- 31. (Currently amended) The apparatus of claim 24, further comprising an edge stiffener <u>hingedly connected</u> between a pair of said devices.
 - 32. (Original) The apparatus of claim 24, further comprising a hinge connecting said first device and said second device.
- 33. (Original) The apparatus of claim 32, wherein said hinge comprises a hinge selected from the group consisting of a conventional hinge, a conventional hinge with integrated torsion spring, a polyimide fold, and a carpenter hinge.
 - 34. (Currently amended) The apparatus of claim 32, wherein said hinge is adapted to situatedeploy a pair or more of said devices in an open position.
 - 35. (Currently amended) The apparatus of claim 32, wherein said hinge is adapted to provide deployment force to said <u>foldable</u> array.
 - 36. (Original) The apparatus of claim 24, wherein one or more of said devices is flexible.
 - 37. (Original) The apparatus of claim 24, wherein one or more of said devices is rigid.
- 38. (Currently amended) The apparatus of claim 24, wherein said pluralityfoldable array of devices comprises one or more devices selected from athe group consisting of an inactive substrate, a solar energy cell, a direct conversion light antenna, and a radio frequency identification tag.
- 39. (Original) The apparatus of claim 38, wherein said solar energy cell comprises a thin-film photovoltaic cell.
 - 40. (Original) The apparatus of claim 39, wherein said thin-film photovoltaic cell comprises a copper-indium-gallium-selenide photovoltaic cell.
 - 41. (Currently amended) The apparatus of claim 24, wherein said arrangement of a plurality foldable array of devices comprises a plurality of devices arranged on a single substrate.
 - 42. (Original) The apparatus of claim 41, wherein said substrate is flexible.

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- 43. (Currently amended) The apparatus of claim 24, wherein said arrangement foldable array comprises a grid-likegridded array of devices.
- 44. (Currently amended) The apparatus of claim 24, further comprising a third bracing member hingedly attached to a bracebracing member and to at least one of the devices, wherein said third bracing member comprises at least one foldable portion.
- 45. (Currently amended) The apparatus of claim 24, further comprising an electrostatic discharge layer covering at least a substantial portion of said array of devices and bracebracing members.
- 46. (Currently amended) A method for integrating passive deployment of a plurality of devices comprising the steps of:

providing an arrangement of a plurality of devices, at least a portion of said first devices and a second device being foldably attached connected, along a first shared edge, to one another;

hingedly attachingconnecting, along a second shared edge, a pair of hingedly connected bracing members; and

hingedly connecting the pair of bracing members to athe pair of said foldably -connected devices;

and attaching a means for situating a pair of said devices in an open position to a plurality of said devices

- wherein the first shared edge and the second shared edge are parallel, and the pair of bracing members is adapted to deploy the pair of devices in an open position.
- 47. (Currently amended) The method of claim 46, wherein said means for situating comprise means the bracing members are selected from athe group consisting of an edge stiffener, and a carpenter hinge.
- 25 48. (Currently amended) An apparatus for integrated passive deployment comprising:

an arrangement of a plurality of devices, at least a portionpair of saidthe devices being foldably attached connected to one another along a first shared edge; and a pair of hingedly connected bracing members, hingedly connected along a second shared edge, and hingedly attached to athe pair of said-foldably connected Page 7 of 25

devices; and

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a means for situating a wherein the first shared edge and the second shared edge are parallel, and the pair of bracing members is adapted to deploy the pair of saiddevices in an open position attached to a plurality of said devices.

- 49. (Currently amended) The apparatus of claim 48, wherein said means for situating comprise means bracing members are selected from athe group consisting of an edge stiffener, and a carpenter hinge.
 - 50. (Currently amended) A method for integrating cabling with stiffening or supporting means comprising the steps of:
- providing an arrangement of a plurality of devices, at least a portion pair of said the devices being foldably attached to one another; and attaching a pair of at least two hingedly connected bracing members to athe pair of said foldably attached devices;

wherein at least one of the bracing members used in the attaching step comprises means for transmitting electricity.

- 51. (Currently amended) The method of claim 50, wherein two or more of the said pair of hingedly connected bracing members comprises means for transmitting electricity.
- 52. (Currently amended) The method of claim 5150, wherein said means for transmitting electricity comprises means for transmitting electrical energy to or from a power source.
 - 53. (Currently amended) The method of claim 5150, wherein said means for transmitting electricity comprises means for communicating an electric signal.
- 54. (Currently amended) The method of claim 5150, wherein said means for transmitting electricity comprises flexflexible circuit technology.
 - 55. (Currently amended) The method of claim 5150, wherein said means for transmitting electricity further comprising one or more electronic circuits selected from the group consisting of a filter circuit, a boost circuit, a transformer circuit, an amplifier circuit, and an automatic bypass circuit.

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56. (Currently amended) An apparatus for integrated cabling with stiffening or supporting means with integrated cabling comprising:

an arrangement of a plurality of devices, at least a portion pair of saidthe devices being foldably attached to one another; and

a pair of hingedly connected at least two bracing members attached to athe pair of said foldably attached devices:

wherein at least one of the bracing members comprises means for transmitting electricity.

- 57. (Currently amended) The apparatus of claim 56, wherein two or more of the said pair of hingedly connected bracing members comprises means for transmitting 10 electricity.
 - (Currently amended) The apparatus of claim 5756, wherein said means for 58. transmitting electricity comprises means for transmitting electrical energy to or from a power source.
- (Currently amended) The apparatus of claim 5756, wherein said means for . 15 59. transmitting electricity comprises means for communicating an electric signal.
 - (Currently amended) The apparatus of claim 5756, wherein said means for 60. transmitting electricity comprises flexflexible circuit technology.
- (Currently amended) The apparatus of claim 5756, further comprising one or 61. more electronic circuits selected from the group consisting of a filter circuit, a boost circuit, a 20 transformer circuit, an amplifier circuit, and an automatic bypass circuit.
 - (Currently amended) A method for manufacturing a deployable array of 62. devices comprising the steps of:

providing an arrangement of a plurality of devices, at least a portion pair of said the 25 devices being foldably attached to one another along a first shared edge; hingedly attaching at least a pair of hingedly connected bracing members, connected along a second shared edge, to the at least a pair of said foldably attached devices, such that the first and second shared edges are parallel; and collapsing said arrangement of athe plurality of devices and said the pair of hingedly connected bracing members.

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- 63. (Original) The method of claim 62, wherein said step of collapsing comprises at least one step of folding.
- 64. (Original) The method of claim 63, further comprising at least one step of rolling after said at least one step of folding.
- 5 65. (Currently amended) An apparatus for use as a deployable array of devices comprising:

an arrangement of a plurality of devices, at least a portionpair of saidthe devices being foldably attached to one another along a first shared edge; and at least a pair of hingedly connected bracing members, hingedly attached connected to each other along a second shared edge parallel with the first shared edge, and hingedly connected to the at least a pair of said foldably connected devices; wherein said arrangement of a the plurality of devices and saidthe pair of hingedly connected bracing members is are collapsed.

- 66. (Currently amended) The apparatus of claim 65, wherein said arrangement of
 athe plurality of devices and saidthe pair of hingedly connected bracing members is collapsed using a collapsing technique employing at least one step of folding.
 - 67. (Original) The apparatus of claim 66, wherein said collapsing technique further comprises at least one step of rolling.
- 68. (New) The method of claim 1, wherein at least one of the steps of connecting a hinge along a first shared edge between the first device and the second device,

hingedly connecting a first bracing member to a first side of the first device, hingedly connecting a second bracing member to a first bracing member, and hingedly connecting the second bracing member to a first side of the second device comprises connecting a living hinge.

- 69. (New) The method of claim 68, wherein the living hinge comprises means for deploying at least one of the first and second devices without the application of external force.
- 70. (New) The apparatus of claim 24, including a living hinge configured to hingedly connect at least one of

the first device to the second device,
a first bracing member to the first device,
the second bracing member to the first bracing member, and
the second bracing member to the second device.

5 71. (New) The apparatus of claim 70, wherein the living hinge is configured to deploy at least one of the first and second devices without the application of external force.